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Citations: 7426

h-index: 40

i10-index: 158



Objective:

**Research and Teaching Position in my Profession, as Professor in Chemical Engineering and Biochemical Engineering**

**Academic Qualifications:**

Ph. D. Chemical Engineering	<b>University of Arkansas</b> , Fayetteville, Arkansas, USA	1983
M. Sc. Chemical Engineering	University of Oklahoma, Norman, Oklahoma, USA	1977
Undergraduate Courses B. Sc. Ch E.	University of Oklahoma, Norman, Oklahoma, USA	1976
B. Sc. Medical Technology	University of Isfahan, Isfahan, Iran	1972

Professional qualifications:

Distinguished Prof.	<b>Faculty of Chemical Engineering</b> , Noshirvani University of Technology Iran	2019- present
Professor	<b>Faculty of Chemical Engineering</b> , Noshirvani University of Technology Iran	2005– 2018
Visiting Professor	<b>National University of Malaysia (UKM)</b>	Summer 2012
Associate Professor	<b>School of Chemical Engineering</b> , Universiti of Sains Malaysia, Malaysia	1998 – 2005
Associate Professor	<b>Chemical Engineering Department</b> , University of Mazandaran, Iran	1995- 1998
Assistant Professor	<b>Chemical Engineering Department</b> , University of Mazandaran, Iran	1983-1995
Visiting Professor, Sabbatical Leave	Chemical Engineering Department, University of Arkansas, USA	1990 -1993
Research Scientist	University of Arkansas, USA	1981-1983
Teaching Assistant	University of Oklahoma, USA	1976-1980

**Membership and Professional Affiliations:**Editor in Chief, International Journal of Engineering, Iran, Since 2009. [www.ije.ir](http://www.ije.ir)Editor in Chief, Iranica Journal of Energy & Environment, NUT, since 2009. [www.nit.ac.ir](http://www.nit.ac.ir), [www.IJEE.net](http://www.IJEE.net)Editor of Journal of Environmental Chemistry and Ecotoxicology, Since 2007 [www.academicjournals.org/JECE/Editors](http://www.academicjournals.org/JECE/Editors)

Reviewers for more than 30 international journals.

Member of American Institute of Chemical Engineers, since 1982.

Representative &amp; Member of Iranian Institute of Chemical Engineers since 1983.

Member of Malaysian Institute of Chemical Engineers since 2004-2005.

Member of Indian Chemical Society since 1998.

Editorial Board of International Journal of Engineering, Iran, 1995-1998, 2006-present.

Editorial Advisory Board of International Journal of Engineering, Iran since 1999- 2005.

Member of Chemical Engineering Committee Ministry of Culture and higher Education of Iran, 1995-1998.

Reviewer of Biotechnology Progress, American Chemical Society, 2003.

Reviewer of Biochemical Engineering Journal, Elsevier publisher, 2005.

Reviewer of Enzyme and Microbiological Technology Journal, Elsevier publisher, 2004.

Academic coordinator and representative of the Ministry of Power, Water & Power Industry of Iran at USM, 2004-2005.

Advisory Council of American Central University, USA, 2004.

Member of Iranian Society of Biotechnology since 2005.

Technical Director of Hexagon Synergy (M) SDN BHD, Biofuel Production Plant, Malaysia 2010-Present

#### **Academic Distinctions/Awards:**

Distinguished author of text book “Biochemical Engineering & Biotechnology”. Awards for the best book of the year 2008. Amir Kabir University of Technology, Tehran, Iran.

The best researcher of the year appointed by Iranian’s Ministry of Science, Technology and Innovation, 2006.

Gold Medal for the Invention/Innovation Competition, in research project: “Development of Electrocells for Separation and Extraction of Sugars by Electrodialysis of Hydrolyzate from Palm Oil Solid Wastes”, EXPO Science, Technology & Innovation, Sponsored by Ministry of Science, Technology and Innovation Malaysia, Kuala Lumpur, 2004.

Silver Medal on Invention/Innovation Competition, for the research project: “Production of Bio-ethanol from Palm Oil Solid Wastes” EXPO Science & Technology, Sponsored by Ministry of Science and Technology, Kuala Lumpur, 2003.

Academic Award on Research Achievements, Chancellor of Universiti Sains Malaysia, 2004.

Academic Award on Research Achievements, Chancellor of Universiti Sains Malaysia, 2003.

Silver Medal on Invention/Innovation Industrial Design Technology, I.TEX 2003, Competition, for the research project: “Production of Clean Fuels from Synthesis Gas Using Bacteria, Kuala Lumpur, 2003.

Bronze Medal on Invention/Innovation Competition, for the research project: “Production of Hydrogen and Ethanol from Low-Value Synthesis Gas Using Biocatalysts”, EXPO Science & Technology, Sponsored by Ministry of Science and Technology, Kuala Lumpur, 2002.

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#### **Presented Keynote Speeches:**

1. Application of renewable energy and futuristic point of view on generation of electrical power from microbial fuel cells. International Symposium on Biotechnology (ISB09) Oct. 4-7, 2009, University of Sindh, Jamshoro, Pakistan.
2. Aerobic and anaerobic biological treatment: several industrial case studies. WasteSafe 2011, 2<sup>nd</sup> International Conference on Solid Waste Management in Developing Countries, Feb. 13-15, 2011, Khulna, Bangladesh.
3. Bioelectricity Generation in Biological Fuel Cell with and without Mediators. The 3<sup>rd</sup> International Conference on Fuel Cell & Hydrogen Technology (ICECHT 2011), 22-23 Nov. 2011, Kuala Lumpur, Malaysia.
4. Evaluation and characterization of biological processes: Aerobic versus anaerobic processes. Linnaeus Eco-Tech 2012 • Kalmar, Sweden 26-28 November, 2012.
5. Microbial Fuel Cell as a Bioelectricity Generator, International Conference on Environmental Research and Technology (ICERT 2012), May 30, 2012 Penang, Malaysia.
6. Biosensor for instant identification of glucose using glucosidase enzyme, ECO TECH 2014, Kalmar Sweden.
7. Biological Treatment Processes: Suspended Growth vs Attached Growth, ICERT 2015, Penang, Malaysia.
8. A Survey on Hydrogen Production Processes as a Clean Energy Resource, Th 5th International Conference on Chemical and Bioprocess Engineering (ICCBPE 2015), in UMS, Dec. 9 – 12, 2015, Kota Kinabalu, Malaysia, [fkj.ums.edu.my/iccbpe2015/keynote.html](http://fkj.ums.edu.my/iccbpe2015/keynote.html)
9. Enhanced Energy Recovery and Wastewater Treatment in Microbial Desalination Cell, the 5th International Symposium on Fusion of Science and Technology, New Delhi, India, January 2016. [Keynote Speakers - ISFT 2016 | ISFT 2016, isft2016.org/keynote-speakers/](http://www.isft2016.org/keynote-speakers/)
10. Role of Chemical Engineers in Bioprocesses, ISFT 2017, Jeju, S. Korea. [Keynote Speakers - ISFT 2017 | http://www.isft365.org/keynote-speakers](http://www.isft365.org/keynote-speakers)
11. [Keynote speaker of 6th INTERNATIONAL CONGRESS ON TECHNOLOGY - ENGINEERING & SCIENCE, KUALA LUMPUR, MALAYSIA, 2016, HTTP://ICONTES.ORG/](http://www.icontes.org/)
12. [Plenary Speaker, 7<sup>th</sup> International Science Conference, Katmandu University, Nepal, Nov. 2017.](http://www.katmanduuniversity.edu.np/)

#### **Academic & Professional Experiences**

##### **Conducted Research:**

Biofuel cell, Anaerobic and aerobic fermentation process, Microbial fuel cell, Immobilized cell reactor for enhanced Ethanol production, Organic acids fermentation, Single cell protein, Production of Fungal Alpha Amylase, Enzymatic and acid hydrolysis for sugar production, Extraction of acid from hydrolyzate, Hydrogen production via biological route, Bioconversion of waste gases to liquid fuels and chemicals (ethanol and acetic acid), Bidesulfurization of Coal, Biological treatment of industrial wastewater, Bioremediation,

Biodegradation, Attached growth for industrial wastewater treatment, Rotating biological contactor (NRBC), Up-flow anaerobic sludge blanket, Bio-gas production in UASB, Biofilter, Bioconversion of Palm Oil wastes to ethanol & organic acids, Plasma protein separation and fractionation in EUF cells.

#### Courses Taught:

Chemical Kinetics & Reactor Design, Chemical Reaction Engineering I & II, Fundamental of Chemical Engineering, Thermodynamics, Heat & Mass Transfer, Heat Exchanger Design, Separation Processes, Transport Phenomena, Plant Design & Economic for Chemical Engineers, Wastewater Engineering, Environmental Engineering, Bioreactor Design, Fermentation Processes, Bioprocesses, Bioscience for Engineers, Biochemical Engineering Fundamentals.

#### Supervision for Higher Degrees:

<u>Name of Student</u>	<u>Degree</u> <u>Major</u>	<u>Year</u> <u>University</u>	<u>Thesis Title</u>
1. Davood Farmanzadeh	M.Sc. Applied Chemistry	1994 MU*	Solubility of Hydrogen Sulfide and Sulfur Dioxide in TEG, Tet-EG and DEA Solution.
2. Omran Banpai	M.Sc. Applied Chemistry	1995 IFUI**	Determination of Heavy Metals in Boney Fish in Contaminated Rivers.
3. Manocher Hassanzadeh	M.Sc. Applied Chemistry	1995 IFUI	Application of Metal Coating and Surface Reaction with Phosphate.
4. Vahid Marandi	M.Sc. Chem. Engineering	1995 MUST***	Reaction Rate Model for Diethyl Ether to Ethanol using Heterogeneous Catalysts.
5. Nehal Taghbagloo	M.Sc. Chem. Engineering	1996 MUST	Evaluation of Chemical Reaction Kinetics for Alkanol-Amides.
6. Syed Mehdi Kathami Mashadi	M.Sc. Applied Chemistry	1996 IFUI	Process Design and Production of Hydrofluoric Acid from Flourspar.
7. Ali Nazari	M. Sc. Engineering	1996 MUST	Cost Evaluation for municipal Wastewater treatment Plants.
8. Mdjtaba Ghamsari Rastgo	M. Sc. Engineering	1996 MUST	Economic Analysis of Iranian Petrochemical Plant Products for Exports
9. Mustafa Negaresh	M. Sc. Engineering	1996 MUST	Alternative Process Economic Evaluation for production of Shampoo.
10. Manocher Shoshtari	M. Sc. Engineering	1997 MUST	Alternative Design for Natural Gas Sulfur Recovery Plants
11. Kivan Fatemi	M.Sc.Chemical Engineering	1997 MUST	Biological Waste Treatment of Chukka's Wastewater by Activated Sludge from Anzali Lagoon.
12. Alireaza Hossienzadeh	M.Sc. Chemical Engineering	1996 MUST	Evaluation of Effective Parameters on Kinetics of Chemical Reactions in the Electrocells of Neka Power Plant.
13. Hassanali Zamani	M.Sc. Applied Chemistry	1996 IFUI	Design of Dryer for Rotary Filter Cake in Chrome Chemical Industries.
14. Habibollah Younesi	M.Sc. Applied Chemistry	1997 IFUI	Improvement of Wet Strength of Cardboard with Urea Formaldehyde, Coating with PVC and Alkyd Resins.
15. Ahmad Razaghi	M. Sc. Applied Chemistry	1997 IFUI	Synthesis of Alkali Cellulose and Carboxy-methyl Cellulose from Linter.
16. Hamid Reza Shahabi	M. Sc. Engineering	1997 MUST	Case Study: Survey of trouble shooting, Problems related to Iranian Industries
17. Haji Ahamdi	M.Sc. Applied Chemistry	1998 IFUI	Process Development for Refine and Reuse of Motor Lubricant Oil.
18. Behrose Rasolpenah	M.Sc. Applied Chemistry	1999 IFUI	Removal of Heavy Metals from Electroplating Industrial Wastewater Using Polyelectrolytes as Coagulating Aids.
19. Toraj Ghasemi	M. Sc. Applied Chemistry	1999 IFUI	Evaluation of Industrial Wastewater Treatment Processes.
20. Radjabalipour	l.Sc. Chemical Engineering	1999 MUST	Process Development for Ultra-centrifuge in Production of Skim Milk Cream.
21. Gysu Sahebi	l. Sc. Chemical Engineering	1999 MUST	Digester Design for Production of Biogas in Large Scale.
22. Bahram Zarehnedjade	M.Sc. Chemical Engineering	1999 MST	Biological Treatment of Textile Industrial Wastewater Using Anaerobic Bacteria from Activated Sludge.
			Chromium and Dolomite Removal from Rotary Filter Cake in Chrome Chemical Industries.
			Evaluation of Scale Deposition in the Electrocells of

23. Samad Rezaei	M. Sc., Engineering	1998 MUST	Neka Power Station Hypochlorite Plant.
24. Behrose Shahnasi	A.Sc. Chemical Engineering	1998 MUST	Environmental Impact of Fossil Fuel Utilization in Neka Power Plant.
25. Seyed Jafar Mehdizadeh	M. Sc. Engineering	1997 MUST	Production of Single Cell Protein from Molasses by <i>Saccharomyces cerevisiae</i> .
26. Seyed Vahid Tabataaei	M.Sc. Chemical Engineering	1995 MUST	Microbial desulfurization of Malaysian coal in batch process using mixed culture.
27. Amizon bt. Azizan	M.Sc. Chemical Engineering	2001USM****	Rotating Biological Contactor for Biological Treatment of Poultry Processing Plant Wastewater using <i>Saccharomyces cerevisiae</i> .
28. Punita Nook Naidu	M.Sc. Chemical Engineering	2001, USM	Mass Transfer Coefficients in Photobiological Production of Hydrogen.
29. Ku Syahidah Bt Ku Ismail	M.Sc. Chemical Engineering	2004 USM	Production of Fuels and Chemicals from Synthesis Gas Using Anaerobic Bacteria, <i>Rhodospirillum rubrum</i> and <i>Clostridium ljungdahlii</i> .
30. Habibollah Younesi	Ph.D. Chemical Engineering	2005, USM	Synthesis of Citronellyl Butyrate in a Continuous Packed-Bed Reactor using Immobilized <i>Candida rugosa</i> Lipase
31. Irvan Dahlan	M.Sc. Chemical Engineering	2004, USM	Acid Hydrolysis of Solid Wastes from Palm Oil Plant. Biological Treatment of Palm Oil Mill Wastewater in an UASB Bioreactor.
32. Asmida Bt. Idris	M.Sc. Cemcal Engineering	2005, USM	Bioremediation and Removal of PAH from Seawater and Sediments.
33. Aliakbar Zinatizadeh Lorestani	Ph.D. Chemical Engineering	2006, USM	Separation of Acid and Sugar from Hydrolyzate Solution of Palm Oil Residues in Electro-dialysis Process
34. Hasan Nasrollahzadeh	Ph.D.Chemical Engineering	USM, 2007	Nitrification and Denitrification of POME in RBC and Trickle Bed Filter.
35. Nurhaslina Bt. Che Radzi	M.Sc.Chemical Engineering	2005 USM	Identification and determination of suitable and desire concentration of coagulant for treatment of pulp and paper wastewater.
36. Mohamed E. Esa Abdulgader	Ph.D. Chemical Engineering	USM2007	Bioconversion of Synthesis gas to Liquid Fuel and Chemicals such as Ethanol and Acetic Acid using <i>Rhodopseudomonas capsulate</i> and <i>Clostridium aceticum</i>
37. Wong Sook San	A.Sc. Chemical Engineering	2006 USM	Biological Treatment of Intel wastewater using attached growth
38. Sim Jia Huey	A.Sc.Chemical Engineering	2006 USM	Human Plasma protein separation, Albumin & Globulins by Isoelectric Focusing in a Rotafor
39. Ceok Chai Har	A.Sc.Chemical Engineering	USM, 2007	Biological Treatment of Intel wastewater using activated sludge process with additional Granular Activated Carbon (GAC)
40. Hairul Nazirah Bt. Abdul Halim	M.Sc.Chemical Engineering	USM, 2007	Solvent extraction of HCl- sugar from acid hydrolyzate of Palm Oil residues
41. Tracy Ong Suan Imm	M.Sc. Chemical Engineering	USM, 2007	Biological treatment of Electronic industrial wastewater (Komag, Penang Malaysia) using activated sludge system
42. Hanida bt. Abdul Azia	M.Sc. Chemical Engineering	USM, 2007	Effect of return sludge ratio for the performance of activated sludge system in domestic wastewater treatment
43. Chong Yee Hwang	M.Sc. Chemical Engineering	USM, 2007	Production of Biological Nanoparticles from Bovine Serum Albumin for Drug Delivery.
44. Sadeghpour M.	M.Sc. Environmental Engineering	2006 MU	Biological treatment model for antibiotic wastewater in an Up-flow anaerobic fixed film bioreactor.
45. Rahimnejad Mostafa	M.Sc. Chemical Engineering	2006 MU	Solvent recovery from the amoxicillin production line in Iranian Antibiotic plant.
46. Kademi Mostafa	M.Sc. Environmental Engineering	2007 MU	BTEX determination and bioremediation of aromatic compound in Amir Abad Port.
47. Mohammadi Maedeh	M.Sc. Chemical Engineering	2007 MU	Evaluating performance of industrial treatment plant for Amol's Industrial Park
48. Garnas	M.Sc. Chemical Engineering	2006 IFUI	Biodesulfurization of natural gas
49. Hossemi, Bahareh	M.Sc. Environmental Engineering	2007 MU	Power generation in Microbial Fuel Cell
50. Kavarpour Maryam	M.Sc. Environmental Engineering	2007 MU	Production of Bioethanol from syngas using <i>Clostridium</i> sp. Basic activities of the suspended culture in anode

51. Rahimnejad Mostafa	Ph.D. Chemical Engineering	2010 MU	compartment of the Microbial fuel Cell
52. Mohammadi Maede	Ph.D. Chemical Engineering	2011 BNUT	PHB production, Bioplastic synthesis and bionano-composites
53. Mokhtarzadeh Nader	Ph.D. Chemical Engineering	2012 BNUT	Production of Ethanol in a membrane bioreactor.
54. Sharifzadeh Maziyar	Ph.D. Chemical Engineering	2012 UKM	Bio-oxidation of ethanol to acetic acid using <i>Acetobacter</i> sp.
55. Eshfahani Mehri	Ph.D. Chemical Engineering	2010 BNUT	Impregnation of polymers for polymer concert.
56. Hamed Mershad	Ph.D. Chemical Engineering	2012 BNUT,	Production of lactic acid from the permeated whey using <i>Lactobacillus bulgaricus</i> .
57. Gholestaneh	M.Sc. Chemical Engineering	2010 IFUI	Biological treatment model for dairy wastewater in an Up-flow anaerobic fixed film bioreactor.
58. Ghasemi B. Mostafa	M.Sc. Civil Engineering	2010 BNUT	Design of spray dryer for dairy food products.
59. Hashemieh Babak	M.Sc. Chemical Engineering	2010 BNUT	Removal of turbidity of dairy wastewater using impregnated PVA in fly ash porous media.
60. Amini Gazaleh	M.Sc. Environ. Engineering	2009 BNUT	Immobilized <i>Saccharomyces cerevisiae</i> for production of ethanol from molasses.
61. Sharikian A.	A.Sc. Chemical Engineering	2008 BNUT	NRBC for treatment of dairy wastewater.
62. Shafaghat H.	M.Sc. Environmental Engineering	2008 BNUT	Removal organic color by a new synthesized adsorber.
63. Ebrahimi A.	M.Sc. Chemical Engineering	2008 BNUT,	Production of alpha amylase from lignocellulosic wastes.
64. Nazari A.	M.Sc. Environ. Engineering	2008 NUT	VOC (Methy acetoacetate) removal in a biofilter from the contaminated air stream
65. Rezaei, Pouya Sirous	M.Sc. Chemical Engineering	2009 BNUT	Synthesis of food and chemical grade CMC gel and production of alkaline cellulose.
66. Zare Hossein	M.Sc. Chemical Engineering	2009 BNUT	Production of glucosidase for Biosensors, online determination of glucose
67. Haidarzadeh Hamid	M.Sc. Chemical Engineering	2009 BNUT	Biodesulfurization of natural gas in a CSTR
68. Zarie Hossein	M.Sc. Chemical Engineering	2009 BNUT	UAFF bioreactor for treatability of pulp and paper wastewater.
69. Haidarzadeh Hamid	Ph.D. Chemical Engineering	2012 BNUT	VOC (Acetone) removal in a biofilter using <i>Pseudomonas putida</i> from the contaminated air stream.
70. Karimnejad E.	Ph.D. Chemical Engineering	2012 BNUT	Biodegradation of PAH compounds in a UAPB.
72. Mostafa Asadi	M.Sc. Environmental Engineering	2009 BNUT	Biodegradation of BTX in an Upflow Fixed Film Bioreactor.
73. Saghafi S.	M.Sc. Environmental Engineering	2009 BNUT	Decolorization of molasses using novel absorbent made of fly ash, sand and clay.
74. Rayatdoost	M.Sc. Environ. Engineering	2010 BNUT	Biodiesel fuel synthesis via heterogeneous catalytic trans-esterification reaction, Continuous production
75. Ramazani Ali	M.Sc. Environ. Engineering	2010 BNUT	Transesterification reaction of fatty acids in a batch reactor
76. Haydarzadeh	M.Sc. Chemical Engineering	2011 IFUI	Production of Xanthan gum from whey
77. Valizadeh, S.	M.Sc. Chemical Engineering	2011 IFUI	Production of Lipase from agricultural wastes by <i>Aspergillus niger</i>
78. Gilani Saideh	M.Sc. Chemical Engineering	2011 BNUT	Concert polymer fabrication for corrosive environment.
79. Housienpour Maryam	M.Sc. Chemical Engineering	2011 BNUT	Lactic acid production from dairy wastes in MFC
80. Houseinzadeh, Mohammad Hassan	M.Sc. Civil Engineering	2011 BNUT	Bio-synthesis of polyhydroxy alkanate as biopolymer
81. Haghparast, Fahimeh	M.Sc. Chemical Engineering	2011 BNUT	Production of alpha cellulose from nitro-cellulosic wastes
82. Lasemi, Zahra	M.Sc. Chemical Engineering	2010 BNUT	Production of Chitosan from shrimp's shell
83. Raeesi, Maryam	M.Sc. Chemical Engineering	2011 BNUT	Removal of phenol from hazardous wastewater in a biological process (MSBR).
84. Khorami, Marjan	M.Sc. Chemical Engineering	2011 BNUT	Biodegradation of phenolic compounds in an aerobic/anaerobic Fluidized bed reactor
85. Taghzadeh, Tahereh	M.Sc. Environmental Engineering	2011 BNUT	Biodegradation of phenol in a carrier anaerobic baffled reactor with incorporation of anaerobic sludge
86. Peishegar, Roya	M.Sc. Environmental Engineering	2011 BNUT	Biodegradation of phenolic compound in an upflow packed bed reactor.
87. Mosavi, Seyedeh Nafisah	M.Sc. Environmental Engineering	2011 BNUT	Transesterification of triglycerides using lipase
	M.Sc. Environmental Engineering	2011 BNUT	Membrane less MFC for wastewater treatment
	M.Sc. Environmental Engineering	2011 BNUT	Biodesulfurization of natural gas using strains isolated from hot spring
	M.Sc. Environmental Engineering	2011 BNUT	Solid state fermentation for lipase production from rice husk
	M.Sc. Environmental Engineering	2011 BNUT	Solid state fermentation for lipase production from rice

88. Bakshi, Zinab	M.Sc. Environmental Engineering	2011 BNUT	straw Membrane bioreactor for ETOH production
89. S. Ebrahimi			Biofuel synthesis using heterogeneous alumina catalysts
90. Ali Tardast	M.Sc. Chemical Engineering	2012 BNUT	
91. Alamian Ali	M.Sc. Chemical Engineering	2012 BNUT	Production of Biohydrogen from the photosynthetic bacteria.
92. Mohseni Samaneh	M.Sc. Chemical Engineering	2012 BNUT	Biodiesel fuel production by Alumina Zirconia Catalysts.
93. Vaseghi M.	M.Sc. Chemical Engineering	2012 BNUT	Biofuel from microalgae using photo bioreactor
94. Ghorban Farahi			Acid Hydrolysis of lignocellulosic wastes.
95. Amini Gazaleh	M.Sc. Chemical Engineering	2012 BNUT	Production nano-kitosan as heavy metal adsorbent
96. Fatemeh Pakpour	Ph.D. Chemical Engineering	2012 BNUT	Biofuel synthesis using zeolites Biodiesel fuel from green Algae
97. Mayam Hassani	M.Sc. Chemical Engineering	2012 BNUT	Biodiesel production using heterogenous catalytic reactor
98. Najmeh Bakohi	M.Sc. Chemical Engineering	2012 BNUT	Acid Hydrolysis of biomass
99. SaeideSadat Reyazi	M.Sc. Chemical Engineering	2012 BNUT	Biofuel production from Micro algae in a photosynthetic bioreactor
100. Kamila Zareai	M.Sc. Chemical Engineering	2012 BNUT	Transesterification of fatty acids using lipase
101. Faezeh Samkhanian	M.Sc. Chemical Engineering	2012 BNUT	Bioleaching of chromium ore and Biosorption of Cr <sup>+6</sup> using white root fungi
102. Meghdad Mohammadpour	M.Sc. Chemical Engineering	2012 BNUT	Membrane reactor under vacuum for ETOH production
103. Salehe Shirzadneya			Extraction, separation, purification of curcumin using organic solvents for preparation of nanocurcumin and effect of nanocurcumin on gingival
104. Arezo Khalili	M.Sc. Chemical Engineering	2012 BNUT	
105. Mina Kiakojoori	M.Sc. Chemical Engineering	2012 BNUT	Thermostable alkaline protease production via solid state fermentation in a tray bioreactor
106. Parisa Nouri	M.Sc. Chemical Engineering	2013 BNUT	Extraction of curcumin from Curcuma longa rhizomes and enhancement of solubility of curcumin in nano-hydrogel
107. Ghorban Farahi	M.Sc. Chemical Engineering	2013 BNUT	Bioethanol Production from Permeate of Ultrafiltrated and Pretreated whey
108. Fatemeh Banaei	M.Sc. Chemical Engineering	2013 BNUT	Effect of nanoparticles of curcumin in adults periodontist
109. Fatemeh Pouryafar			Citric acid from whey in batch and continuous culture using <i>Aspergillus niger</i>
110. Sepideh Rezaei	M.Sc. Chemical Engineering	2014 BNUT	Production of Pectic enzymes (Pectinase) from fruit pomace
111. Fatemeh Rohina	M.Sc. Chemical Engineering	2014 BNUT	New formulation of Curcumin and enhancement of its edibility absorption
112. Tahmineh Ebadi	M.Sc. Chemical Engineering	2014 BNUT	Subcritical water extraction of Curcumin from plant roots.
113. Sepideh Ghanbartabar	M.Sc. Chemical Engineering	2014 BNUT	Chairial durg synthesis of Neproxin
114. Mohamad Mahmoodi	M.Sc. Chemical Engineering	2014 BNUT	Biosensor detection and application in fermentation
115. Foziah Sahneh	M.Sc. Chemical Engineering	2014 BNUT	Subcritical Extraction of Total Flavonoid from Stinging nettle ( <i>Urtica Dioica L.</i> ) and Evaluation of $\alpha$ -Amylase Inhibitory
116. M. Valizadeh	M.Sc. Chemical Engineering	2014 BNUT	Effect Biological Treatment of Leachate from Cattle Manure and Instant Methane Purification
117. Saideh Gilani	M.Sc. Chemical Engineering	2014 BNUT	Acid pretreatment and enzymatic saccharification of brown seaweed for polyhydroxybutyrate (PHB) production using <i>Cupriavidus necator</i>
118. Ehsan Pashaei	Ph.D. Chemical Engineering	2016 BNUT	Biofixation of CO <sub>2</sub> using microalgae in Airlift photobioreactor
119. Fatemeh Rahnama	Ph.D. Chemical Engineering	2014 BNUT	COD and nutrient removal of cattle manure effluent by aerobic sequencing batch reactor and Fenton post-treatment
120. Soheil Asgari Neshat	M.Sc. Chemical Engineering	2015BNUT	CO <sub>2</sub> biofixation and vitamin B12 production by microalgae <i>chlorella vulgaris</i>
121. Nahid Azizi	M.Sc. Chemical Engineering	2015BNUT	Microwave and Ultrasonic Assisted Extraction of Juglone, Natural Brown Pigment from Walnut Green Husk ( <i>Juglans regia L.</i> )
122. Shokouh-sadat Mousavi	M.Sc. Chemical Engineering	2015BNUT	Subcritical water extraction of gingerols and shogaols from ginger and preparation of nanoparticle for pharmaceutical applications
122. Ali Matinfar	M.Sc. Chemical Engineering	2015BNUT	Synthesis of Iron Oxide Nano-Magnetic particle and Its Employment for Targeted Ibuprofen Drug Delivery

	M.Sc. Chemical Engineering	2015BNUT	Extraction resveratrol from grape and nanoformulation for enhancing its bioavailability
123. Neda Jalilian			Problematic soil strength improvement by microbially-based grouts
124. Tavoos Beiki	M.Sc. Chemical Engineering	2015BNUT	Production of chitosan from Iranian date plum syrup by fungi and process optimization
	M.Sc. Chemical Engineering	2016 BNUT	Extraction of flavonoid compounds from propolis and nano-formulations to enhance the bioavailability
125. Zinab Nourbakhsh			Biosynthesis and recovery of xanthan gum biopolymer using apple pomace in solid state fermentation (SSF)
126. Zahra Gholami	M.Sc. Chemical Engineering	2016 BNUT	Extraction of Ursolic acid from Rosmary, Synthesis of its derivatives and loading on Magnetic Iron oxide nano particle-functionalized by Folic acid for targeted cancer treatment
127. Shah Mansouri			Evaluation of Curcumin Loaded on Natural Polysaccharide Hydrogel of Xanthan Gum and Chitosan: In Situ Release
128. Zinab Hoseynpour	M.Sc. Chemical Engineering	2016 BNUT	Performance of Novel Microbial Fuel Cell in Desalination Process
129. Samira Marzban	M.Sc. Chemical Engineering	2016 BNUT	Synthesis of inhibitor for penicillinase
130. Gholnaz Heidari	M.Sc. Chemical Engineering	2016 BNUT	Biosensor for detection of fats and triglycerides
131. Javad Hassankhani			hydrogel synthesis for drug loading and delivery
132. Fatemeh Ghasenzadeh	M.Sc. Chemical Engineering	2018 BNUT	Boron Neutron Capture Therapy of Cancer: Nanoparticles Boron Delivery Agents
	Ph.D. Chemical Engineering	2018 BNUT	RBR for bioactive compounds production
133. Tahmineh Ebadi			vitamin B12 production and purification by Microalgae
134. Atieh Ebrahimi	M.Sc. Chemical Engineering	2016 BNUT	Protein purification for drug delivery
	Ph.D. Environmental Engineering	2016 BNUT	Biofuel production from algal extracted lipids
135. Neda Akhlaghi			CO <sub>2</sub> capture by lignocellulosic adsorbent prepared by enzymatic pretreatment
136. M. Hosseini	Ph.D. Chemical Engineering	2016 BNUT	Extraction of bioactive compounds from parsley ( <i>Petroselinum crispum</i> L.)
137. Foziah Sahneh	Ph.D. Chemical Engineering	2016 BNUT	
138 F. Pirouz	Ph.D. Chemical Engineering	2018 BNUT	
138. Tavoos Beiki			
139. Foziah Sahneh	Ph.D. Chemical Engineering	2018 BNUT	
140. R. Esfandyar	Ph.D. Chemical Engineering	2018 BNUT	
141. Alizadeh	Ph.D. Chemical Engineering	2018 BNUT	
142. F. Margdarinezhad	M.Sc. Chemical Engineering	2018 MIT	
	M.Sc. Chemical Engineering	2018 BNUT	
143. Helia Poureini			
144. F. Ahmadi	M.Sc. Chemical Engineering	2018 BNUT	
	M.Sc. Chemical Engineering	2018 BNUT	

\*Mazandaran University (MU), Noshirvani University of Technology (NUT), Babol, Iran

\*\*Mazandaran University of Science & Technology (MUST), Babol, Iran

\*\*\*Islamic Free University of Iran (IFUI)

\*\*\*\*Univesiti Sains Malaysia (USM), Penang, Malaysia & Universiti Kabangsar Malaysia (UKM), Kuala Lumpur, Malaysia

#### **Final Year Projects for B.Sc. Degree in Chemical Engineering (USM):**

Hasni Suzila bt Che Hamid, 2005. Purification of sucrose in electro dialysis process.

Jamaliah bt. Deri, 2005. Production of ethanol from acid Hydrolyzate sugar obtained from Palm Oil residues.

Lee Lek Kee, 2005. Biological Treatment of Fish Cannery Wastewater by three-stage Rotating Biological Contactors

Subahini D/O Nadras, 2005. Aerobic Oxidation of Phenanthrene in batch system using *Pseudomonas putida*.

Wan Nor Sazwana bt Ab Khalib, 2005. Alternatives for conventional glycerinated rose-water production

Hii Ai Yieng, 2004. Continuous treatment of POME by RBC. An attached growth

Nurul Edry bt. Aziz, 2004. Production of ethanol from acid hydrolyzate sugar originated from Palm Oil residues.

Norihan Hj Drashid, 2004. Enzymatic hydrolysis of Sago starch to monomeric sugars.

9. Yap Yok Mian, 2004. Removal of VOCs from the contaminated air by Biofilter.

10. Myainthan a/l Kudarsamy, 2004. Production of ethanol using upgraded enzymatic hydrolyzed molasses

11. Wan Yusmarena bt. Wan Yusoff, 2004. Acid hydrolysis of Palm Oil residues, empty fruit bunch

Asmida bt. Ideris, 2002. Manufacturing and characterization of ceramic membrane.

13. Cheong Poi Shan, 2002. Enzymatic hydrolysis of starch.
14. Lim Jit Kang 2002. Production of organic acids via fermentation process
15. Mohd Fakhruzafie Mohd, 2002. Enzyme purification.
- Nurhaslina bt. Che Radzi, 2002. Production of Single Cell Protein from molasses.
- Shah Rizan B. Sulaiman, 2002. Kinetic studies of Alkanolamide reactions.
- Siti Mardziana bt. Mahmud, 2002. Biological treatment of wastewater from pulp and paper industry using RBC process.
- Syamsul Bahari b. Abdullah, 2002. Application of trickle filter for wastewater treatment.
- Wan Nur Fauzana Wan Mustafa, 2002. Production of alpha-amylase using amyloletic bacteria.
- Zainal Akmar b. Zainuddin, Aerobic oxidation of Palm oil wastewater.
- LooKien Wai, 2002. Production of transparent soap from Palm Oil.
- Lai Hon Kuan, 2002. Biological treatment of waxy hydrocarbon industrial wastewater.
24. Phang Sin Yee, 2001. Ethanol fermentation under partial vacuum condition, using *Saccharomyces cerevisiae*.
25. Muhammad Dlemi b. Hashim, 2001. Acid hydrolysis of pretreated palm oil residues
26. Too Ji Hoong, 2001. Modeling and simulation of alum removal by reverse osmosis membrane.
- Suhaini Bt. Abdrahman, 2001. Oxygen transport modeling in aeration tank for wastewater treatment.
- Siti Rahayu Bt. Ahmad Subri, 2001. Kinetic studies of enzymatic hydrolysis of molasses.
- Lee Chiah Lin, 2000. Oxygen transfer rate in an aerated tank for pharmaceutical wastewater treatment.
- Ku Syahidah Bt. Kuismail, 2000. Solid waste management: Safe land filling methods.
- Lee Ken Kok, 2000. Production of diethyl ether from ethanol in gas phase using  $\gamma$ -alumina and determination of rate equation.
- Lau Bok Lian, 2000. Kinetic studies of enzymatic hydrolysis of molasses
- Tee Chooi Bee, 2000. Acid hydrolysis of Palm Oil residues.
- Rosliza Bt. Rosely, 2000. Optimization of the electrocells in Chlorine production process in Lumut Power Plant.
- Hartini Haron, 2000. Anaerobic Digestion of Coal
- Lim Chee Wee, 1999. Production of Transparent Soap using Palm Oil.
- Lau Siew [Fui@Lem](mailto:Fui@Lem) Siew Fui, 1999. Anaerobic biodegradation of mono-chlorophenol in industrial waste stream using activated sludge process.
- Aziah Bt. Pauzi, 1999. Methane production from cattle manure.
- Ng Sze Yin, 1999. Production of Fungal  $\alpha$ -amylase enzyme.
- Yip Siew Siew, 1999. Aerobic digestion of non-penicillinic pharmaceutical wastewater.
- Juhaida Md. Saad, 1999. Ethanol Production.

#### **Administrative/School Duties:**

Dear of Engineering College 1985-1987.  
 Deputy Chancellor in research, University of Mazandaran, Babolsar, Iran, 1987-1990.  
 Head, Chemical Institute, University of Mazandaran, Babolsar, Iran, 1993-1995.  
 Director, Mazandaran Institute of Technology, Babol, Iran, 1996-1998.  
 Head of Organizing Committee, International Book Exhibition at the University Mazandaran, 1987.  
 Chairman and Member of Organizing Committee, Tabari International Congress, sponsored by UNESCO and The Ministry of Culture and Higher Education of Iran, Motel Bank Melli, Babolsar, Iran, 1988.  
 PhD Program chairman, Faculty of Chemical Engineering, University of Mazandaran, Babol, Iran, 2006-present.  
 Invited Board member, School of Industrial Technology, Universiti Sains Malaysia, Penang, Malaysia, 2002-2005.  
 Board member, School of Civil Engineering, Universiti Sains Malaysia, Penang, Malaysia, 2003-2005.  
 Member of postgraduate committee, School of Chemical Engineering, Universiti Sains Malaysia, Engineering Campus, Penang, Malaysia, 2003-2005.  
 Head of Chemical Engineering, Biotechnology & Head of Biotechnology Research Center, NUT, Babol, Iran, since 2008.

#### **Consultant Activities:**

Mazandaran Water and Wastewater Organization, 1995-1998.  
 Neka Power Plant, Chlor-alkaline production, 1997-1998.  
 Malaysian Institute of Chemical Engineers Training, MICET program with USM, 2002-2004.  
 Hexagon Synergy for biofuel & bioethanol production from syngas, 2010-2013  
 Mazandaran Regional Gas Company, Sari, Iran, 2016-present

#### **Registered Patents:**

- Formulation of Transparent Soap and Natural Biodegradable Liquid Detergent from Palm Oil's Fatty Acids, Patented in



- Malaysia SIRIM: ISD 426/13/1, [NS/2002-09/146], 2003.
- Microbial fuel cell design and fabrication for power generation, Patented in Iran, Registration no. 55670, 2008.
- Design and fabrication of packed column for purification of nanobio-products. Patented in Iran, Registration no. 49023, 2008.
- Fabrication of Meso-porous adsorbent based on fly ash-sand and clay for removal of dye from wastewater. Patented in Iran, Registration no. 55907, 2008.
- Microbial desalination cell patented in Iran; registration no. 9502756

### **List of Research Papers submitted for Publications in Referee Journals:**

#### **A. Publications in Refereed Prestigious National, International ISI Journals & Proceedings:**

##### **Accepted Papers for Publication**

##### **Published 2020**

471. Jalilian, Neda, Ghasem D. Najafpour, and Mohammad Khajouei. "Macro and Micro Algae in Pollution Control and Biofuel Production—A Review." *ChemBioEng Reviews*. January 2020, Vol. 7, No. 1, 1–17  
<https://doi.org/10.1002/cben.201900014>
470. R Hedayati, M Hosseini, GD Najafpour, [Optimization of semi-anaerobic vitamin B12 \(cyanocobalamin\) production from rice bran oil using Propionibacterium freudenreichii PTCC1674](#). *Biocatalysis and Agricultural Biotechnology* 23, (2020) 101444
469. H Ezoji, M Rahimnejad, G Najafpour-Darzi, [Advanced sensing platform for electrochemical monitoring of the environmental toxin; bisphenol A](#). *Ecotoxicology and Environmental Safety* 190, (2020) 110088

##### **Published 2019**





468. F Pirouz, G Najafpour, M Jahanshahia, M Sharifzadeh Baei, [Plant-Based Calcium Fructoborate as Boron-Carrying Nanoparticle](#)
467. M Rahimnejad, RA Abdulkareem, G Najafpour, [Determination of Diazinon in fruit samples using electrochemical sensor based on](#)
466. J Heidarzadeh, N Marzban, M Pourmohammadbagher, G Najafpour, [Development of a nano alumina-zirconia composite cataly](#)
465. G Najafpour Darzi, G Heidari, M Mohammadi, AA Moghadamnia, [Microwave Ultrasound Assisted Extraction: Determination](#)
464. M Mahmoodi, GD Najafpour, M Mohammadi, [Bioconversion of agroindustrial wastes to pectinases enzyme via solid state ferm](#)
463. S Saghafi, A Ebrahimi, G Najafpour, F Hashemian, [Electrical Energy Management in Industrial Wastewater Treatment Plant. I](#)
462. F Pirouz, G Najafpour, M Jahanshahi, MS Baei, [Biodistribution of calcium fructoborate as a targeting agent for boron neutron](#)
461. G Najafpour Darzi, MM Lakouraj, A Heydari, M Rouhi, AG Hosseinzadeh, [Recycling and Reuse of Organo-sulfur Compound](#)
460. C Zareie, S Kholghi Eshkalak, G Najafpour Darzi, M Sharifzadeh Baei, [Uptake of Pb \(II\) Ions from Simulated Aqueous Solutio](#)
459. M Nouri, M Rahimnejad, G Najafpour, A Akbar Moghadamnia, [A Gr/αFe<sub>2</sub>O<sub>3</sub>/Carbon Paste Electrode Developed as an Electro](#)
458. RR Kalmer, M Mohammadi, A Karimi, G Najafpour, Y Haghighatnia, [Fabrication and evaluation of carboxymethylated diethy](#)
457. M. Mahmoodi, G.D. Najafpour, M. Mohammadi, [Bioconversion of agroindustrial wastes to pectinases enzyme via solid state fe](#)  
**Volume 21, September 2019, 101280**
456. [Fatemehzahirifar, MostafaRahimnejad,Rafid A.Abdulkareem, GhasemNajafpour](#), Determination of Diazinon in fruit samples u
455. [Atieh Zabihollahpoor, Mostafa Rahimnejad, Ghasem Najafpour, Ali Akbar Moghadamnia](#), Gold nanoparticle prepared by elec
454. Izadi, Ali, Morteza Hosseini, Ghasem Najafpour Darzi, Gholamreza Nabi Bidhendi, and Farshid Pajoum Shariati. "Performa
453. Maliheh Hosseinian, Ghasem Najafpour, Ahmad Rahimpour, A novel bioelectrochemical sensor based on immobilized ureas
452. Rasool Alipanahi, Mostafa Rahimnejad, Ghasem Najafpour, Improvement of sediment microbial fuel cell performances by d
451. Ali Izadi, Morteza Hosseini, Farshid Pajoum Shariati, Ghasem Najafpour, Gholamreza Nabi bidhendi, Treatment  
[http://www.ijcce.ac.ir/article\\_34793\\_0.html](http://www.ijcce.ac.ir/article_34793_0.html)
450. Amin Arvin, Morteza Hosseini, Mohammad Mehdi Amin, Ghasem Najafpour Darzi, Younes Ghasemi, A comparative study
449. Maliheh Hosseinian, Ghasem Najafpour, Ahmad Rahimpour, Amperometric Urea Biosensor Based On Immobilized Urease
448. Seyedeh Nazanin Kardi, Norahim Ibrahim, Noor Aini Abdul Rashid &Ghasem Najafpour Darzi, Investigating effect  
<https://doi.org/10.1007/s11356-019-05204-z>.
447. Foozie Sahne, Maedeh Mohammadi, and Ghasem D. Najafpour, Single-Layer Assembly of Multifunctional Carboxymethylc
446. Amirhossein Farahi, Ghasem D. Najafpour, Aliasghar Ghoreyshi, Enhanced Ethanol Separation by Corona-Modified Surface
445. Ali Matinfar, Maedeh Mohammadi, Ghasem D Najafpour and Habibollah Younesi, Ammonia and phosphorus removal from

##### **Published 2018**

444. Izadi, Ali, Morteza Hosseini, Ghasem Najafpour Darzi, Gholamreza Nabi Bidhendi, and Farshid Pajoum Shariati. "Treatmen
443. Izadi, Ali, Morteza Hosseini, Ghasem Najafpour Darzi, Gholamreza Nabi Bidhendi, and Farshid Pajoum Shariati. "recycling
442. Mahzad Mirzaei; Reza Khanbabaie; Mohsen Jahanshahi; Ghasem Najafpour Darzi, Preparation, Optimization and Character
441. Shokouh Mousavi, Ghasem D. Najafpour, Maedeh Mohammadi, CO<sub>2</sub> bio-fixation and biofuel production in an airlift photob

440. Pashai E., Najafpour, Jahanshahi, Rahimejad, An electrochemical nitric oxide biosensor based on immobilized cytochrome
439. Seyyed Vahid Niknezhad, Ghasem Najafpour, Mohammad Hossein Morowvat, Ghasemi Eexopolysaccharide production of
438. Atieh Ebrahimi, Ghasem Najafpour, Optimization of Whey Treatment in Rotating Biological Contactor: Application of Tagu  
DOI:10.5829/ijee.2018.09.02.10
437. Atieh Ebrahimi, Daryoush Yousefi Kebria, Ghasem Najafpour, Co-treatment of septage and municipal wastewater in a quad
436. Izadi, A. M.Hossen, G.D. Najafpour, Paper-recycling wastewater treatment using *Ocimum basilicum* L. along with alum: O
435. Hamidreza GhafouriTaleghani, Ali Asghar Ghoreyshi, Ghasem D. Najafpour, Thin film composite nanofiltration membrane for lactic acid production in membrane bioreactor. *Biochemical Engineering Journal*, Volume 132, 15 April 2018, Pages 152-160, <https://doi.org/10.1016/j.bej.2018.01.020>
434. Shokouh Mousavi, Ghasem D. Najafpour, Maedeh Mohammadi, Mohammad Hasan Seifi, Cultivation of newly isolated microalgae *Coelastrum* sp. in wastewater for simultaneous CO<sub>2</sub> fixation, lipid production and wastewater treatment. *Bioprocess and Biosystems Engineering*, 41(4), 519-530. DOI: 10.1007/s00449-017-1887-7
433. Ebrahimi, Atiyeh, Ghasem Najafpour, and Daryoush Kebria, Performance of Microbial Desalination Cell for Salt Removal and Energy Generation using different atholyte Solutions. *Desalination* (2018) 432, 1–9. IF=5.527
432. Soheil A. Neshat, Maedeh Mohammadi and Ghasem D. Najafpour, Effect of Illumination Intensity on Photosynthesis Assisted Anaerobic Digestion of Cattle Manure Leachate for Enhanced Biogas Production. *Chemical Engineering Journal* 338 (2018) 8–14. IF=6.216
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430. Tavoos Beiki, Ghasem D. Najafpour and Morteza Hosseini, Evaluation of Antimicrobial and Dyeing Properties of Walnut (*Juglans regia* L.) Green Husk Extract for Cosmetics. *Coloration Technology*, 134:71-81 doi: 10.1111/cote.12322
429. Ebrahimi A., D.Y. Kebria and Najafpour G. Darzi, Enhancing biodegradation and energy generation via roughened surface graphite electrode in microbial desalination cell, *Water Science and Technology*, (2017). 76 (5) 1206-1214.
428. Nastaran Azimi, Amir Hessam Hassani, Ghasem Najafpour Darzi, Sayed Mehdi Borghei, Biodegradation of Wastewater Containing High Concentration of Sulfamethoxazole by Antibiotic Adopted Biofilm in Attached Growth Bioreactor, *Pol. J. Environ. Stud.* Vol. 26, No. 6 (2017), 2463-2469. IF=0.793
427. Sakine Fatemi, Ali A. Ghoreyshi , Mostafa Rahimejad , Ghasem Najafpour Darzi  & Deepak Pant   
Sulfide as an alternative electron donor to glucose for power generation in mediator-less microbial fuel cell. *Journal of Environmental Science and Health, Part A*, Volume 52, 2017 - Issue 12, Pages 1150-1157 <https://doi.org/10.1080/10934529.2017.1342500>. IF=1.425
426. L. Gorgani, M. Mohammadi, G.D. Najafpour, M. Nikzad, "Sequential microwave-ultrasound assisted extraction for isolation of piperine from black pepper (*Piper nigrum* L.)" has been accepted for publication in *Food and Bioprocess Technology*, manuscript number, December 2017, Volume 10, Issue 12, pp 2199–2207. IF=2.576
425. Rezvani, M., Najafpour, G., Mohammadi, M., & Zare, H. (2017). Amperometric biosensor for detection of triglyceride tributyrin based on zero point charge of activated carbon. *Turkish Journal of Biology*, 41(2), 268-277. IF=1.038
424. Ebrahimi, Atieh, Daryoush Yousefi Kebria, and Ghasem Najafpour Darzi. "Improving bioelectricity generation and COD removal of sewage sludge in microbial desalination cell." *Environmental technology* (2017): Vol. 39 (9) 1188-1197. IF=1.751
423. Samkhanian, F., Najafpour, G. D., & Ardestani, F. (2017). Evaluation of effective nutritional parameters for *Scenedesmus* sp. microalgae culturing in a photobioreactor for biodiesel production. *International Journal of Environmental Science and Technology*, 14(5), 1037-1046. IF=1.915
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421. Neshat, Soheil A., Maedeh Mohammadi, and Ghasem D. Najafpour. "Photosynthesis Assisted Anaerobic Digestion of Cattle Manure Leachate in a Hybrid Bioreactor: an Integrated System for Enhanced Wastewater

- Treatment and Methane Production." *Chemical Engineering Journal* (2017). Volume 330, 15 December 2017, Pages 616-624. <https://doi.org/10.1016/j.cej.2017.08.001>. IF=6.216
420. Neshat, S. A., Mohammadi, M., Najafpour, G. D., & Lahijani, P. (2017). Anaerobic co-digestion of animal manures and lignocellulosic residues as a potent approach for sustainable biogas production. *Renewable and Sustainable Energy Reviews*, 79, 308-322. IF=8.050
419. Heydarzadeh, H. D., Najafpour, G., Ghoreishi, A., & Younesi, H. (2017). Bioremediation of hydrogen sulfide from gas stream in continuous culture with cell recycle. *ROMANIAN BIOTECHNOLOGICAL LETTERS*, 22(2), 12391-12399. IF=0.412
418. Rezvani, Fazlollah, Fatemeh Ardestani, and Ghasem Najafpour. "Growth kinetic models of five species of Lactobacilli and lactose consumption in batch submerged culture." *Brazilian Journal of Microbiology* 48:2 (2017): 251-258. IF=1.091
417. Nouri, Parisa, and Ghasem Najafpour Darzi. "Impacts of process parameters optimization on the performance of the annular single chamber microbial fuel cell in wastewater treatment." *Engineering in Life Sciences* Vol. 17, Issue no. 5 (2017): 545-551. IF=1.698
416. Sahne, F., Mohammadi, M., Najafpour, G. D., & Moghadamnia, A. A. (2017). Enzyme-assisted ionic liquid extraction of bioactive compound from turmeric (*Curcuma longa* L.): Isolation, purification and analysis of curcumin. *Industrial Crops and Products*, 95, 686-694. IF=3.181
415. Hajimohammadi, Reza, et al. "Experimental Design Procedure for Optimization of Saponin Extraction from *Glycyrrhiza glabra*: A Biosurfactant for Emulsification of Heavy Crude Oil." *Tenside Surfactants Detergents* 54.4 (2017): 308-314. IF=0.869
414. Azizi, Nahid, Ghasem Najafpour, and Habibollah Younesi. "Acid pretreatment and enzymatic saccharification of brown seaweed for polyhydroxybutyrate (PHB) production using *Cupriavidus necator*." *International Journal of Biological Macromolecules* 101 (2017): 1029-1040. IF=3.671
413. Ebrahimi, Atieh, Ghasem D. Najafpour, and Manouchehr Nikzad. "Evaluation of treatability of high strength wastewater in a three stage-rotating biological contactor." *Journal of Environmental Engineering and Landscape Management* (2017): 1-7. IF=0.635
412. S. Fatemi, A.A. Ghoreyshi, M. Rahimnejad, G.N. Darzi, D. Pant, Sulfide as an alternative electron donor to glucose for power generation in mediator-less microbial fuel cell. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering* (2017).
411. Saeedeh L. Gilani, Aliakbar Moghadamnia, Hamid D. Heydarzadeh and Ghasem D. Najafpour "Enantioselective Synthesis of (S)-Naproxen using Immobilized Lipase on Chitosan Beads" Accepted for publication in *Chirality*. DOI: 10.1002/chir.22689 IF=1.956
410. Hamidreza Ghafouri Taleghani, Ali Asghar Ghoreyshi, Ghasem D. Najafpour, Lactic acid Production with in situ Extraction in Membrane Bioreactor. *Applied Food Biotechnology*, 2017, 4 (1):27-34. ISC
409. Leila Gorgani, Maedeh Mohammadi, Ghasem D. Najafpour, Maryam Nikzad, 2017. Piperine - the Bioactive Compound of Black Pepper: From Isolation to Medicinal Formulations". *Comprehensive Reviews in Food Science and Food Safety* 16 (1), 124-140, , ISI, IF=4.903
408. F Sahne, M Mohammadi, GD Najafpour, AA Moghadamnia, Enzyme-assisted ionic liquid extraction of bioactive compound from turmeric (*Curcuma longa* L.): Isolation, purification and analysis of curcumin, *Industrial Crops and Products* 95, 686-694
407. HG Taleghani, AA Ghoreyshi, G Najafpour, Lactic acid Production with in situ Extraction in Membrane Bioreactor, *Applied Food Biotechnology* 4 (1), 27-34
406. M Rezvani, GD Najafpour, M Mohammadi, H Zare, Amperometric biosensor for detection of triglyceride tributyrin based on zero point charge of activated carbon, *Turkish Journal of Biology*, 41 (2017), 268-277. ISI, IF=1.183
405. Ebrahimi, Atiyeh, Ghasem Najafpour, and Daryoush Kebria. "Effect of batch vs. continuous mode of operation on microbial desalination cell performance treating municipal wastewater." *Iranian Journal of Hydrogen & Fuel Cell* 3.4 (2016): 281-290.
404. Mahmoodi M., G.D. Najafpour, M. Mohammadi; "Effect of Passive Transport of Water through Plasma Membrane in Production of Extracellular Enzyme", *Bioprocess and Biosystems Engineering*. 40(2), 297-307, 2017. DOI: 10.1007/s00449-016-1697-3 ISI, IF=1.901

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402. Reza Hajimohammadi, Morteza Hosseini, Hossein Amani, Ghasem D. Najafpour (2016). Production of Saponin Biosurfactant from *Glycyrrhiza glabra* as an Agent for Upgrading Heavy Crude Oil. *Journal of Surfactants and Detergents*, 19:1251-1261. DOI: 10.1007/s11743-016-1871-2 ISI, IF=1.853

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400. Aghbashlo, Mortaza, MeisamTabatabaei, SeyedSina Hosseini, HabibollahYounesi, and GhasemNajafpour. "Exergy analysis for decision making on operational condition of a continuous photobioreactor for hydrogen production via WGS reaction." *International Journal of Hydrogen Energy* 41, no. 4 (2016): 2354-2366. [10.1016/j.ijhydene.2015.12.070](https://doi.org/10.1016/j.ijhydene.2015.12.070) **ISI, IF=3.205**
399. Aghbashlo, Mortaza, MeisamTabatabaei, SeyedSina Hosseini, HabibollahYounesi, and GhasemNajafpour. "Performance analysis of a continuous bioreactor for ethanol and acetate synthesis from syngas via Clostridium ljungdahlii using exergy concept." *Clean Technologies and Environmental Policy* 18, no. 3 (2016): 853-865. DOI: 10.1007/s10098-015-1061-3 **ISI, IF=1.934**
398. Dadak, Ali, MortazaAghbashlo, MeisamTabatabaei, HabibollahYounesi, and GhasemNajafpour. "Using exergy to analyse the sustainability of fermentative ethanol and acetate production from syngas via anaerobic bacteria (Clostridium ljungdahlii)." *Sustainable Energy Technologies and Assessments* 15 (2016): 11-19. [10.1016/j.seta.2016.03.001](https://doi.org/10.1016/j.seta.2016.03.001) **ISI, IF=1.089**
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- Najafpour, G. D.**, "Industrial Wastewater Primary Treatment Processes", Industrial Wastewater Treatment 1999, School of Chemical Engineering, Universiti Sains Malaysia, 1 –2 December 1999, Chapter I.
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- Najafpour, G. D.**, "Industrial Wastewater Treatment, Anaerobic Digestion", Waste Management 2000, School of Chemical Engineering, Universiti Sains Malaysia, 16 –17 May 2000, Chapter VI.
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- Najafpour, G. D.**, "Biological Treatment, Technologies for Industrial Waste Treatment", Industrial Waste Management 1998, School of Chemical Engineering, Universiti Sains Malaysia, 16 –17 December 1998, Chapter III.

Refereed Published Books:

Book Title

Summary

1. Heat Transfer (in Persian)  
University of Mazandaran,  
Babol, Iran  
Publishers: University of  
Mazandaran, Babolsar,  
Iran  
Published 1991, 182 pages, Soft  
Cover

This is my 1<sup>st</sup> book I have published at University of Mazandaran. This topic, I have taught for number of years in heat transfer. That was the first basic course in unit operation/ heat transfer. I have managed to cover the syllabus and all the required material for the 1<sup>st</sup> course of heat transfer in 6 chapters. The basic heat transfer, conduction and convection heat in single and composite media has been discussed in detail. One hundred problems in heat transfer have been covered in three fields of heat transfer; conductive, convective, radiative heat transfers. In the last part of this book (chapter 6) shell and tube heat exchanger design has been fully discussed. This book is used as a textbook and it is a suitable guideline for engineering students in the first heat transfer course.

2. Biogas Plants  
Author: Ludwig Sasse  
Translated into Persian  
language  
Publishers: Amir Kabir  
University & University  
of Science and  
Technology, Iran  
Published: 1995  
Number of pages: 103, Soft  
Cover

Application of various sources of energy is to get more benefit from all types of available purpose of "Biogas Plants" is to demonstrate how easily a unit in a small scale can costs. Using and saving energy is a strategic goal of any society. In this manuscript is shown in his book, how a biogas plant works and how a simple one can be extract energy for cooking and heating purposes. The original manuscript was written in Persian language, it has been translated to English, then English manuscript version of Biogas Plants. It is my duty to translate into Persian language. The objective of my translation was to help small farmers to be equipped with biogas unit and also to be self sufficient in energy. The full translation into Persian language has been carried in this book. That is a real help for farmers to build and maintain a biogas unit for generation of methane from cattle manure. The plant size is based on number of cattle and the size of the gas holding tank. All aspects are discussed. Therefore this book would teach common people how to generate biogas from availability feedstock form cattle manure or other solid wastes. This book has detailed design and sample calculations.

3. Biotechnology and Coal  
Publisher: Hormozgan  
University, Bandar Abbas,  
Iran  
Publication no. 77, year: 1998,  
ISBN 964-6426-67-0  
Number of pages: 227, Soft  
Cover

This book was prepared based on newly research found on Coal. Especially there are a few recent papers covered on coal biodesulfurization techniques. Biotechnology is a new field of study; it must be clearly explained to other scientists who are searching in this field. Since the availability of the material in Persian language is a major problem in the university level in Iran and because of the lack of information in academic research, therefore I have attempted to gather all the material regarding to Biotechnology and coal. In this book, I have discussed about types of bacteria can grow on coal and what are the advance techniques regarding to coal cleanings, floatation and desulfurization. The objectives of this book was to present methods and show how easily coal can be desulfurized by growing microorganisms e.g. *Thiobacillus thiooxidans* and *Thiobacillus ferrooxidans* on coal, to remove sulfur and purify the coal. This book is prepared in 10 defined sections with 227 pages.

4. Mass Transfer  
Publisher: Hormozgan  
University, Bandar Abbas,  
Iran  
Publication no. 53, year: 1997,  
ISBN 964-6426-60-3  
Number of pages: 234, in five  
chapters, Soft Cover

This is my 4th book I have published in Persian language in Iran. This topic, I have taught in mass transfer course for a few semesters at University of Mazandaran. I have arranged it in 5 chapters in 234 pages. Chapter 1 is about distillation and fractionation column. The absorption and stripping topics are discussed in chapter 2. Extraction column, liquid-liquid extraction has been discussed in chapter 3. Evaporators, single and multiple effects are designed and detail descriptions are given in chapter 4. Various methods of flash distillation and flash calculations for multi-components are given in chapter 5. The Persian textbook is presently used as a textbook for the 2<sup>nd</sup> course of mass transfer and separation processes. It is useful book with practical aspects in the discipline of Chemical Engineering.

5. Biochemical Engineering and  
Biotechnology  
Publisher: Elsevier,  
Amsterdam, Holland,  
2007.  
Publication date: Nov. 2006.  
In 17 Chapters in 438 pages

In a new millennium, extensive applications of bioprocesses have created an environment of great interests and have involved many engineers in expansion of knowledge in biotechnology. Microorganisms are able to produce fine chemicals, fuel and food which are utilized and involved in many industrial processes. The knowledge related to industrial microbiology has been revolutionized by the ability of genetically engineered cells to make many new products. Genetic engineering and gene-mounting has been developed in enhancement of industrial

with number of case studies  
 ISBN: 0444-52845-8  
[www.books.elsevier.com](http://www.books.elsevier.com)  
 2<sup>nd</sup> Edition of this book with 20 chapters is published by Elsevier Feb. 2015.  
 ISBN: 978-0-444-63357-6

fermentation. Finally, biotechnology with applications in biochemical engineering has a new way of making commercial products by using living organisms and also the fully developed knowledge to deliver fine and useful products.

This book demonstrates application of biological sciences in engineering with theoretical and practical aspects. The 17 chapters in one volume should give much more understanding of the knowledge related to the specified field with more practical approaches and related case-studies with original research data. It is an advanced guided book for students to follow the sequential lectures with detailed explanations and solved practical problems in the related chapters. The book has suitable applications in biological science, biochemical engineering and biological processes. The book is unique with practical approach, easily understandable with many applications in industrial field. This is a text book; much useful for students to follow many case-studies. It is unique in example and in demonstration of detailed experiment with simple design equations and the required calculations. Even in some cases it is a true guide for the beginners to establish advance research in this field. This book is designed to serve as a textbook for college and Universities, it is mostly recommended for undergraduate courses in one or two semesters. It is also very useful for research institutes and postgraduates involved in practical research in biotechnology and biochemical engineering.

6. M. Rahimnejad, M. Jahanshahi G. D. Najafpour, Fabrication and Optimization of BSA Nanoparticles ISBN 978-3-8454-1592-5, paperback, 72 Pages, LAP Lambert Academic Publishing, 2011.
7. Meisam Tabatabaei, Alawi Sulaiman, Ali M. Nikbakht, Norjan Yusof and GHasem D. Najafpour Influential Parameters on Biomethane Generation in Anaerobic Wastewater Treatment Plants. Book Chapter, Source: [Alternative Fuel](#), ISBN 978-953-307-372-9, Edited by: Maximino Manzanera, Published by [InTech](#), August 2011. [www.intechopen.com/.../influential-parameters-on-biomethane-gener...](http://www.intechopen.com/.../influential-parameters-on-biomethane-gener...)
8. G. D. Najafpour M. Rahimnejad, A.A. Ghoreyshi Effect of Mass Transfer on Performance of Microbial Fuel Cell published by InTech - Open Access Publisher, ISBN 978-953-307-619-5, 2011.
9. G. D. Najafpour M. Rahimnejad, A.A. Ghoreyshi Microbial fuel Cell, Published by Noshirvani University of Technology, Babol, Iran, 2011. Number of pages: 336, Hard Cover.
10. G.D. Najafpour, H. Heidarzadeh Fundamental of Heat Transfer, Published by Noshirvani University of Technology, Babol, Iran, 2013. Number of pages: 276, Hard Cover.

**Internal and External Examiner for MS and PhD students:**

- Permanent internal examiner for postgraduate students, School of Industrial Technology, Universiti Sains Malaysia, Penang, Malaysia, 2003.
- Examiner for MD. Zaidul Islam Sarker (Ph. D. degree) in School of Industrial Technology, Universiti Sains Malaysia, Penang, 2003.
- Examiner for Norli Bt. Ismail (Ph. D. degree) in School of Industrial Technology, Universiti Sains Malaysia, Penang, 2003.
- Examiner for Onyia Oby Christie (Ph. D. degree) in School of Industrial Technology, Universiti Sains Malaysia, Penang, 2002.
5. Examiner for Surendran a/l Ramasamy (M. Sc. degree) in School of Chemical Engineering, Universiti Sains Malaysia, 2000.
  6. Invited examiner for S. M. Mazhar Nazeeb Khan (Ph. D. degree) PG and Research Dept. of Chemistry, Jamal Mohamed College, Tiruchirappalli 620 020, Tamil Nadu, India, 2004.
  7. External examiner for M. Sc. Students in Chemical Engineering Department, Mazandaran University of Science & Technology, Babol, Iran, 1994 - 1999.
  8. External examiner for M. Sc. Students in Applied Chemistry Islamic Free University of Iran, North of Tehran and Shahrood Branches, 1995-1999.
  9. Ph. D. External Examiner for Ferra Naidir (GS16830) Synthesis of osidative palm based synthetic lubricant (degree) in School of Chemical Engineering, Universiti Putra Malaysia, Kuala Lumpur, Malaysia, 2010.
  10. Ph. D. External Examiner for Manoj Kumar Ghosh, Studies on Microbial Production of Lactic Acid by Batch Fermentation, Department of Paper Technology, Indian Institute of Technology, Roorkee, India, 2011.

11. Ph. D. External Examiner for Asim Ibrahim, Linnaeus University, Sweden 2014.

**Invited lecturer:**

8. Keynote speaker in ECO TECH, 2014 " Enhancement of amperometric response of glucose biosensor by electro-deposition of silver nanoparticles onto chitosan-modified electrode" Linnaeus University, Kalmar, Sweden Nov. 24-26, 2014.
7. Keynote speaker, "Anaerobic versus Aerobic Treatment Process" Wastesafe 2011, Khulna, Bangladesh Feb. 13-15, 2011.
6. Keynote speaker, Biodiesel Synthesis from Transesterification of FFA, 1st International Conference on New Frontiers in Biofuels, January 18-19, 2010, Delhi Technological University, New Delhi, India.
5. Keynote speaker, "Microbial Fuel Cell as renewable energy source", 5th International Symposium on Biotechnology (ISB) October 4-7, 2009, University of Sindh, Jamshoro, Pakistan
4. Keynote speaker, "Future Role of Biotechnology in Production of Synthetic Fuel and Chemicals from Renewable Resources". Fifth Regional IMT-GT UNINENT Conference, Thailand 2005.
3. Membrane Science and Technology Research Center, Prince Songkla University, Thailand, 2003.
2. Applied Chemistry Islamic Free University of Iran, Shahrood, Iran, 1996-1998.
1. Chemical Engineering Department, Mazandaran University of Science & Technology, Babol, Iran. 1993-1998.

**Research Grants:**

- "Production of Cellulose Acetate from Linter", Jihad Mazandaran, Industrial Group. Sari, Iran, 1991-1992, Rials: 1,500,000.
- "Production of water Impermeable Cellulose Fibers", Mazand Board Company, Babolsar, Iran 1993-1994, Rials: 1,000,000.
- "Geomembrane for Protection of Wastewater Concert Pipe Line", Mazandaran Water and Wastewater Company, Sari, Iran, 1994-1995, Rials: 5000,000.
- "Optimization of Sanilec Cells" Neka Power Plant, Ministry of Power, Tehran, Iran, 1997-1998, Rials: 20,000,000.
- "Biodesulfurization of Coal", Universiti Sains Malaysia, Project no. IRPA: 163539, 1998-2000, RM: 13,100.
- "Optimization of an Aerated System for Aerobic Digestion of Industrial Wastewater System" Universiti Sains Malaysia, Project no. IRPA: 073515, 2000-2002, RM: 12,300.
- Development of Inorganic Membrane to Remove Oil Emulsifier from Domestic Wastewater" Universiti Sains Malaysia, Project no. IRPA: 703574, 2002-2003, RM: 16,124.
- Co-research, "Synthesis of Citronellyl Butyrate in a Continuous Packed Bed Reactor using Immobilized Lipase" IRPA, 2003-2005, RM: 19,590.
- "Bioconversion of Low Value Waste Gas to Liquid Fuels and Chemicals", Sponsored by Ministry of Science and Technology & Universiti Sains Malaysia, Project no. IRPA 03-02-05-9016, 1999-2003, RM: 373,000.
- "Production of Organic Acids and Ethanol from Palm Oil Residues", Sponsored by Ministry of Science and Technology & Universiti Sains Malaysia, Project no. IRPA 01-02-05-3223 EA011, 2003-2005, RM: 317,000.
- "Separation of Albumin,  $\gamma$ -Globulin and Immuno-globulins from Serum Protein by Electro-ultra-filtration and Gel Filtration, Sponsored by Ministry of Science, Technology and Innovation & Universiti Sains Malaysia, Project no. IRPA 03-02-05-4278 EA019, 2004-2005, RM: 231,600.
- "Development of Electrocells for separation & Extraction of Sugar by Electrodialysis of Hydrolyzate Palm Oil Solid Wastes" *yayasan felda grant*, 2004-2005, RM: 116,000.
- "Biological Treatment of Palm Oil Mill Effluent in an Up-flow Anaerobic Sludge Blanket (UASB) Bioreactor", Universiti Sains Malaysia, Project no. IRPA: 2004-2005, RM: 19,950.
- Multi-stage Microbial fuel cell for power generation. IRPA grand, Rials 550, 000, 000. 2009.
- "Recovery of methyl aceto-acetate from amoxicillin plant waste's stream". Industrial Flagship IRPA grand, Rials 240, 000, 000. 2007.
- "Biological Fuel Cell" Funded by Iranian National Research Foundation for Science & Technology, IRPA grand, Rials 200, 000, 000. 2007.
- "Bioethanol fuel production from syngas" submitted to Iranian National Research Foundation for Science & Technology for IRPA grant. Rials 150,000,000. 2010-2011.
- Biodistribution of Calcium Fructoborate as a Targeting Agent for boron Neutron Capture Therapy in an Experimental Model of Cancer  
INSF Research Grant no. 96016567, Rials 150, 000, 000. 2018-2019.
- Recycle and Reuse of Organo-Sulfur Compounds from Contaminated Barrels of Mercaptan Odorant Used for Natural Gas, and Mazandaran Gas Company (Sari Headquarter, Iran) throughout Research Grant No.: 12059/97. Rials 1, 500, 000, 0000. 2018-2019.

**References:**

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